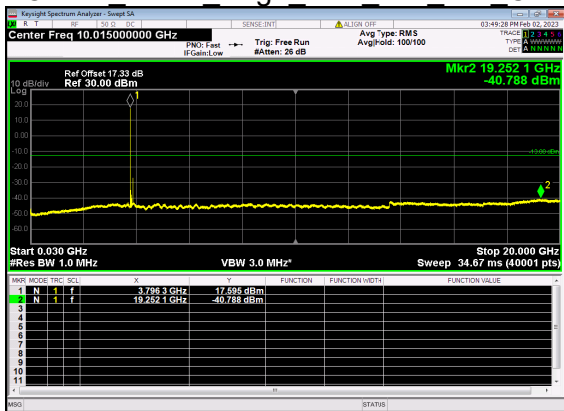
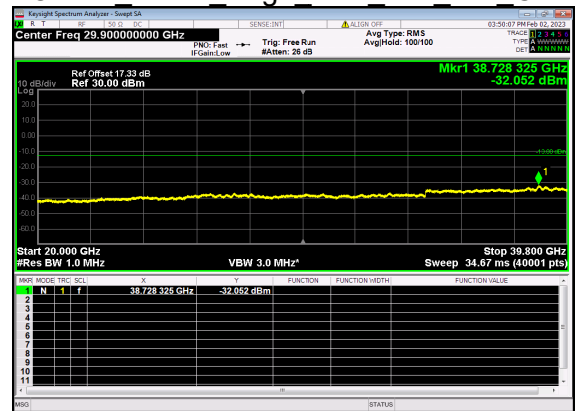




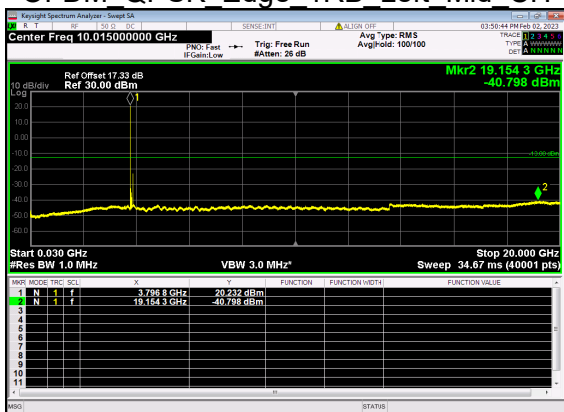
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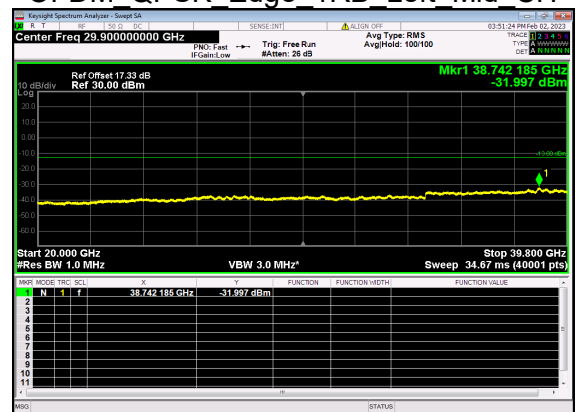
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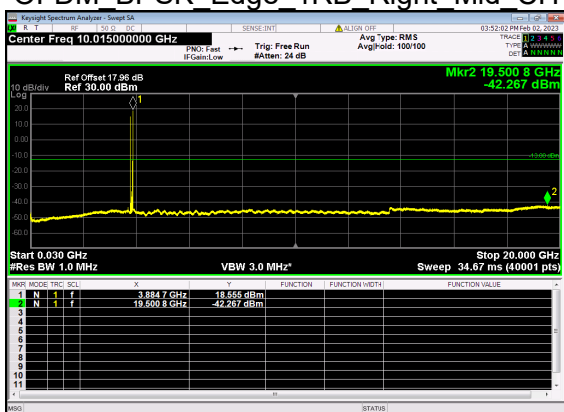
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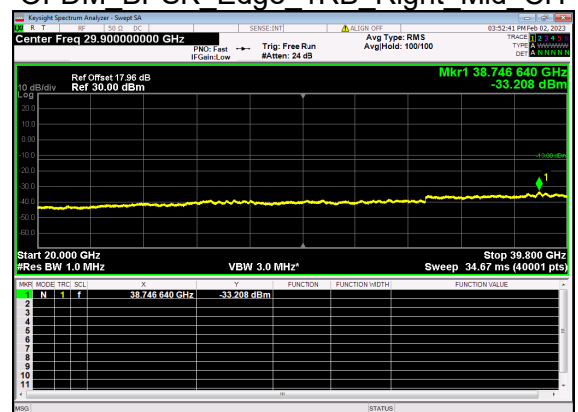
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N77(90M)_DFT-s-OFDM BPSK Edge 1RB Right Mid CH

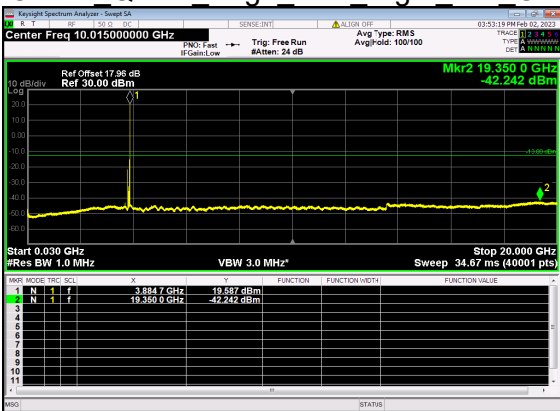


N77(90M)_DFT-s-OFDM BPSK Edge 1RB Right Mid CH

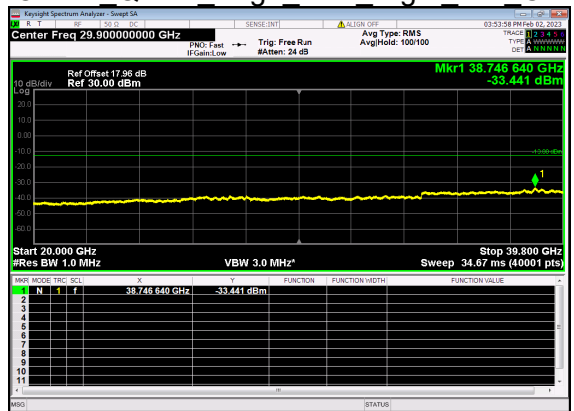




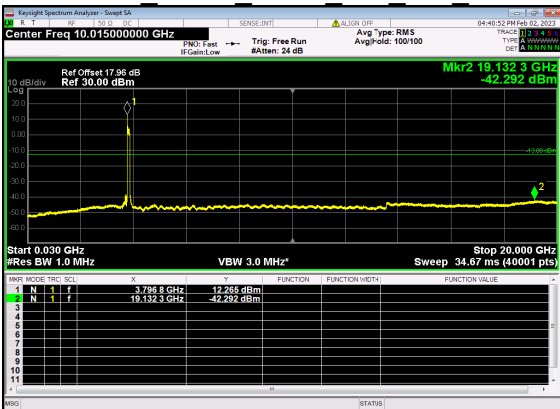
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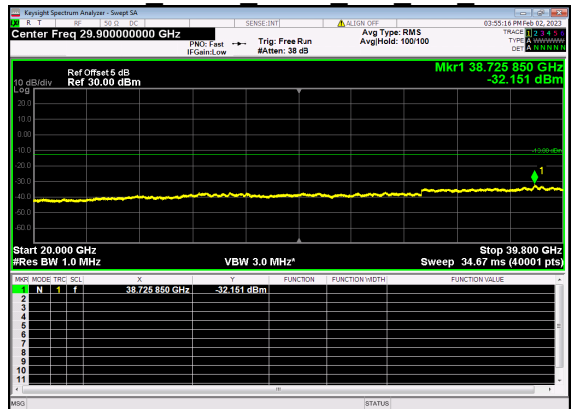
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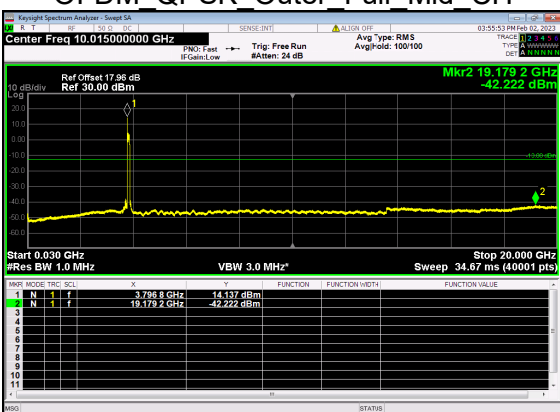
N77(90M)_DFT-s-OFDM BPSK Outer Full Mid CH



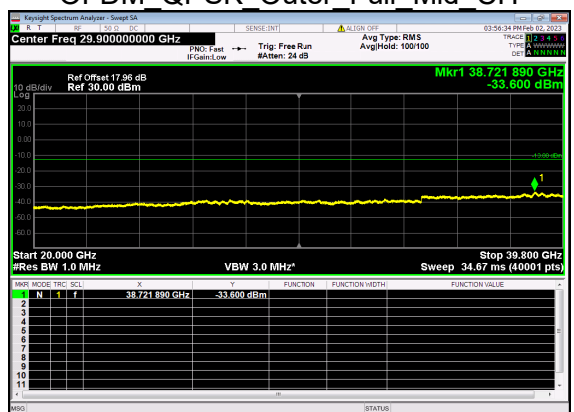
N77(90M)_DFT-s-OFDM BPSK Outer Full Mid CH



N77(90M)_DFT-s-OFDM QPSK Outer Full Mid CH

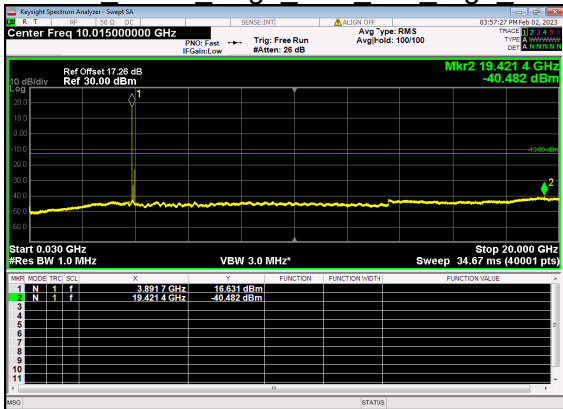


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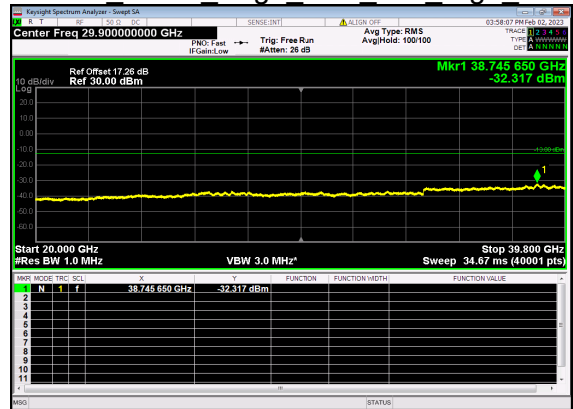




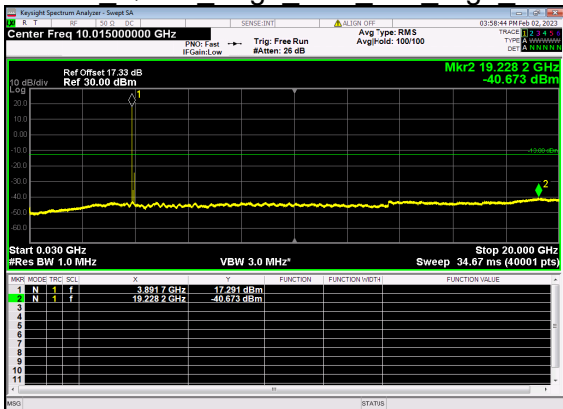
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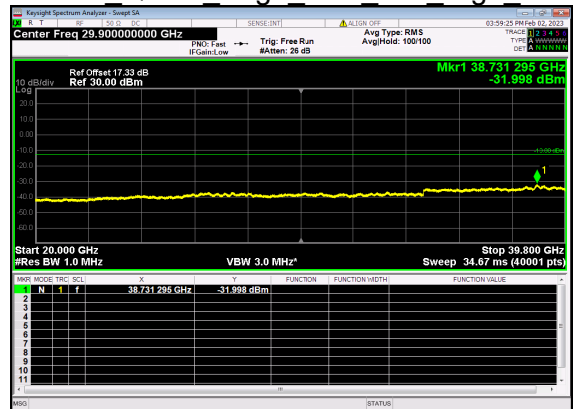
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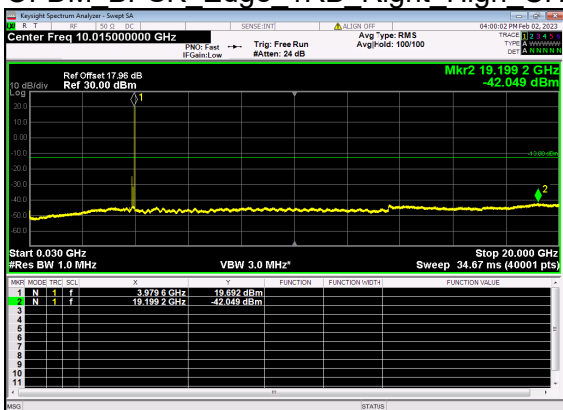
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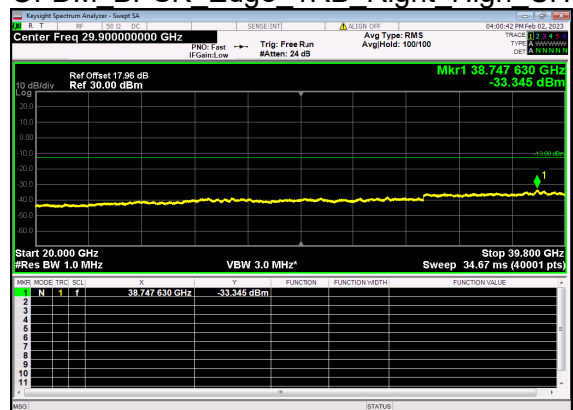
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N77(90M)_DFT-s-OFDM BPSK Edge 1RB Right High CH

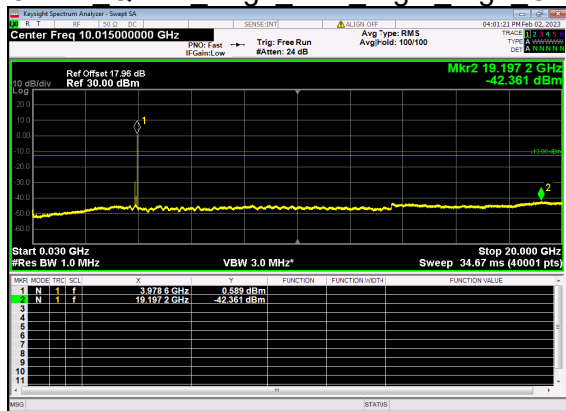


N77(90M)_DFT-s-OFDM BPSK Edge 1RB Right High CH

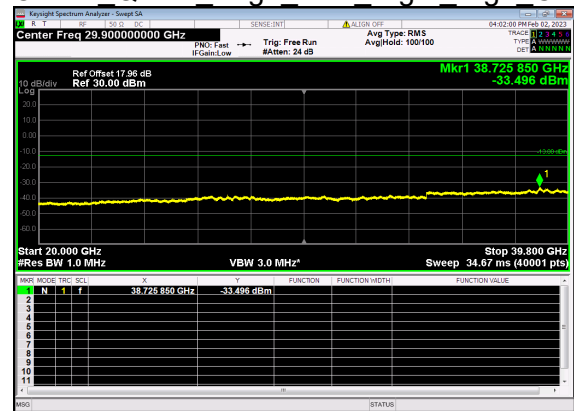




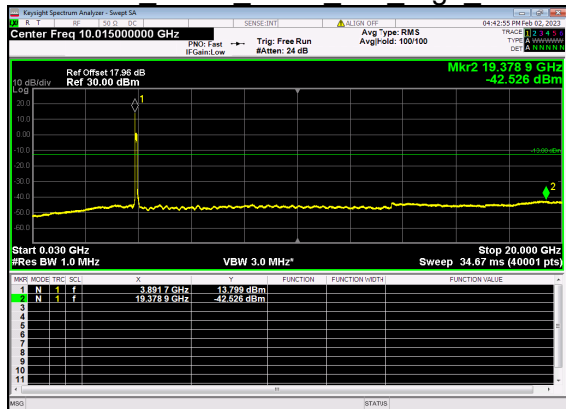
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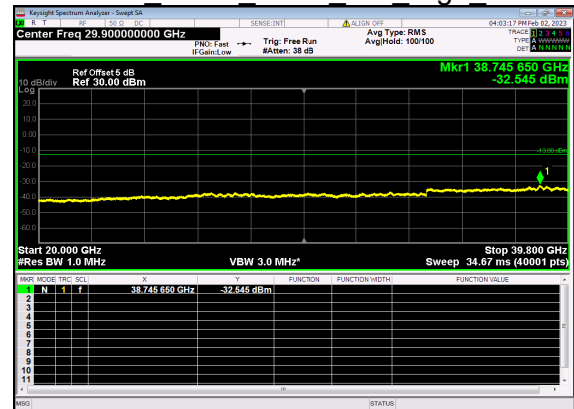
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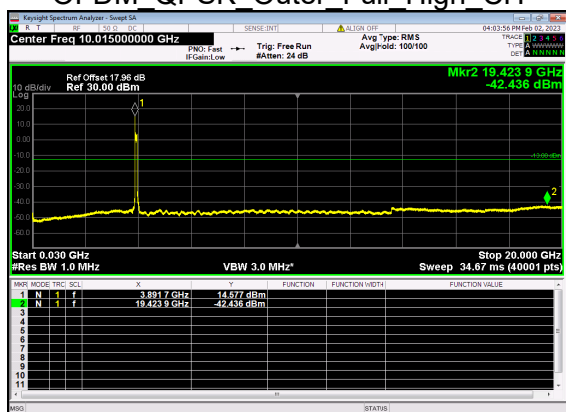
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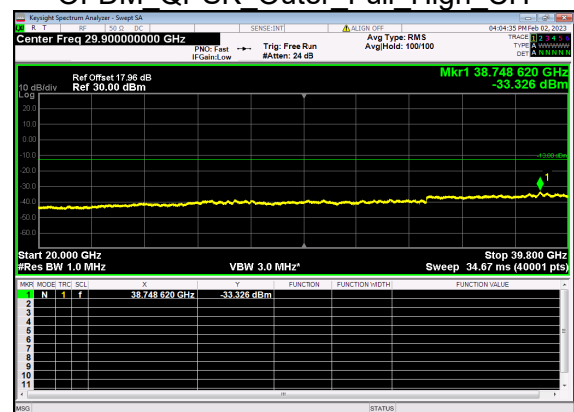
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N77(90M)_DFT-s-OFDM QPSK Outer Full High CH

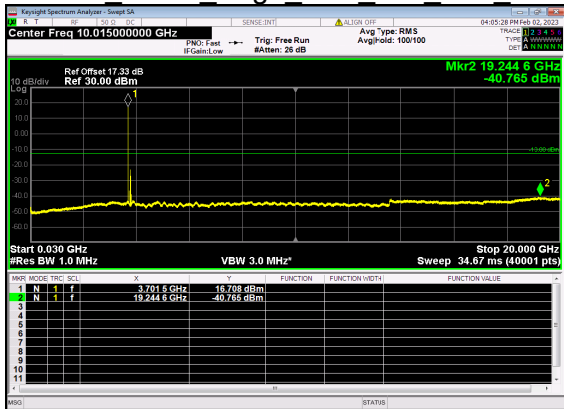


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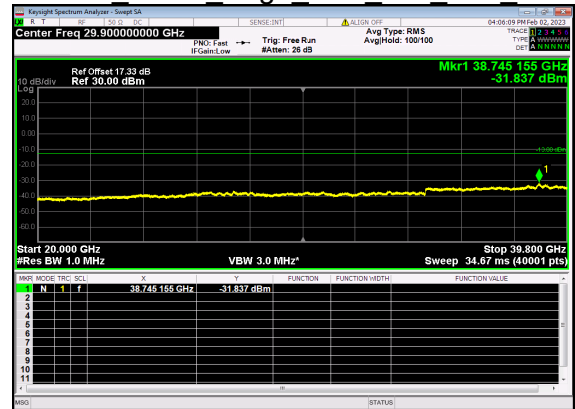




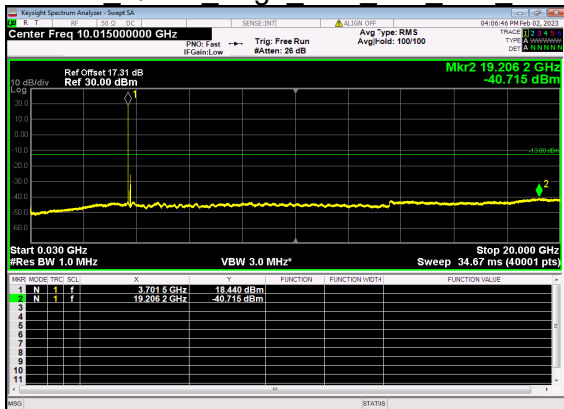
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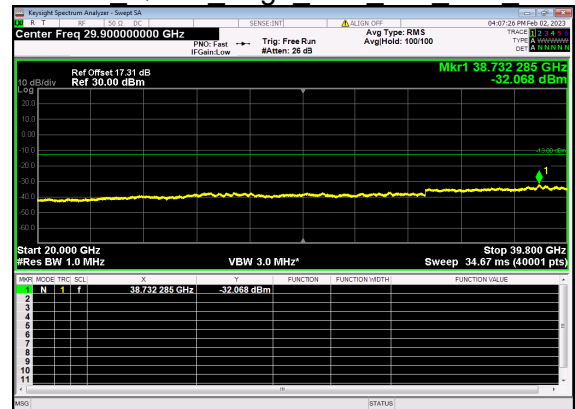
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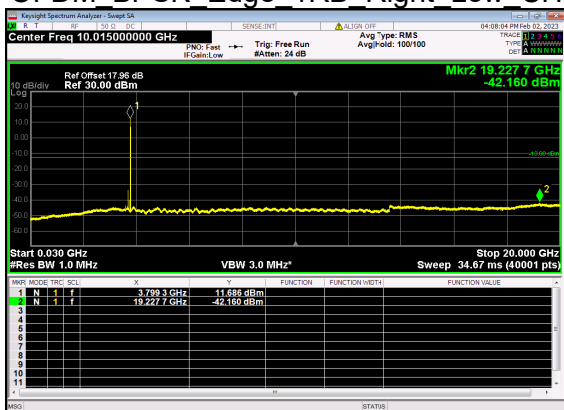
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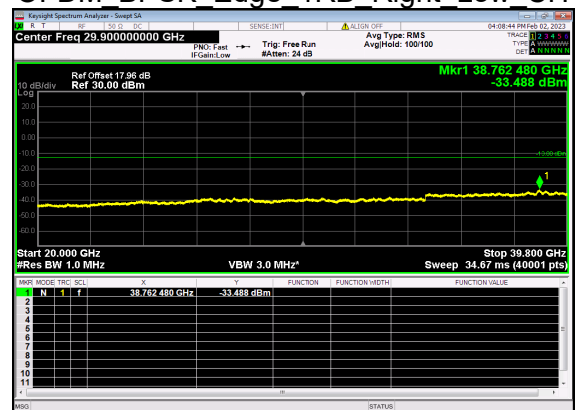
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N77(100M)_DFT-s-OFDM BPSK Edge 1RB Right Low CH

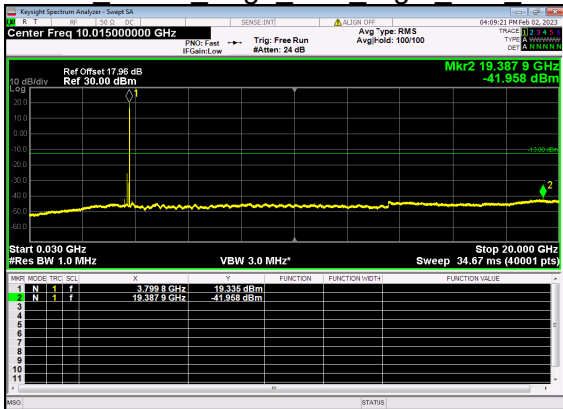


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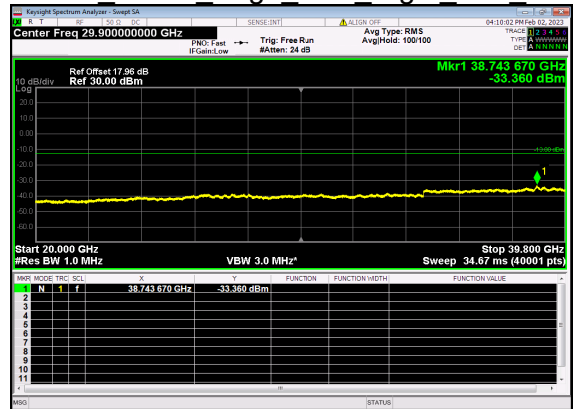




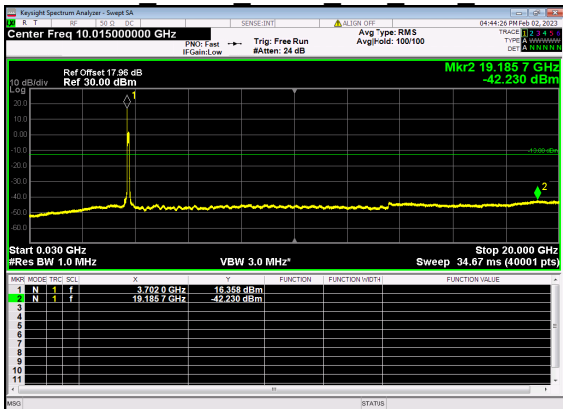
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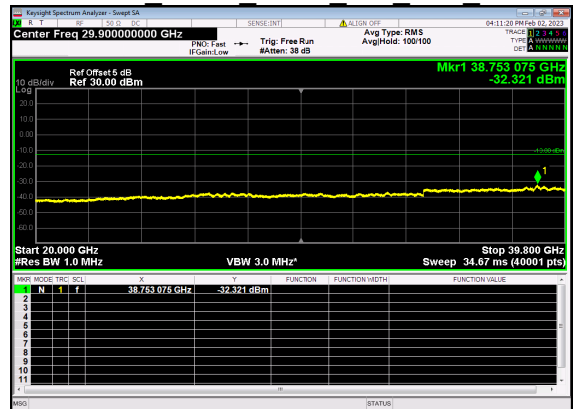
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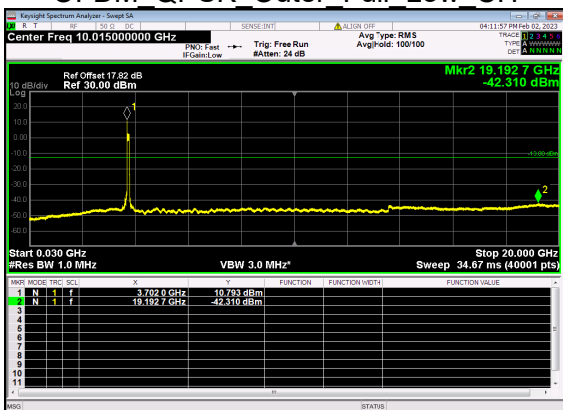
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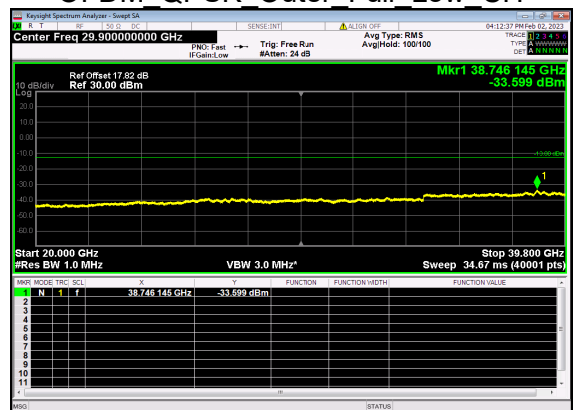
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N77(100M)_DFT-s-OFDM QPSK Outer Full Low CH

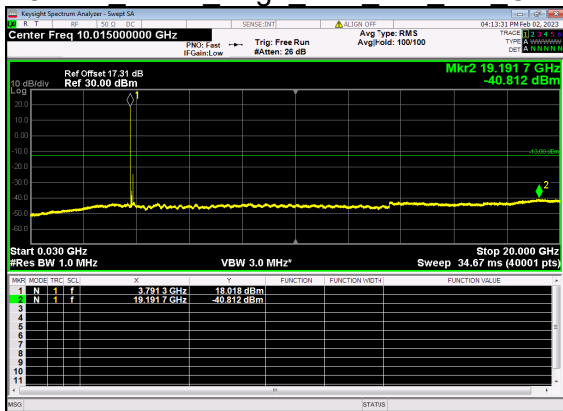


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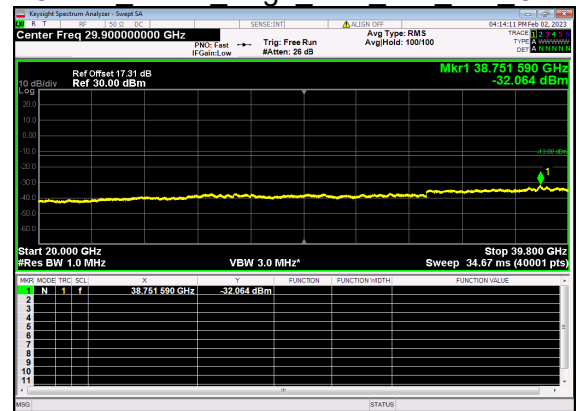




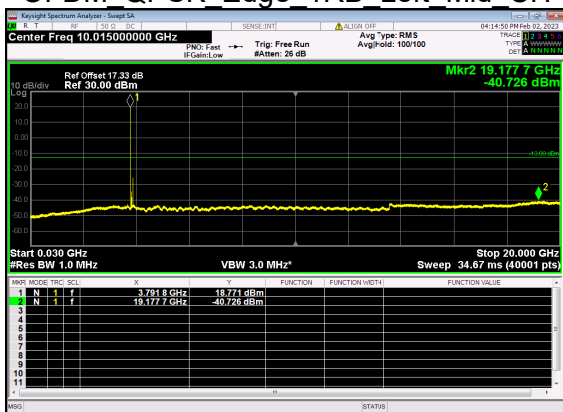
N77(100M)_DFT-s-OFDM BPSK Edge 1RB Left Mid CH



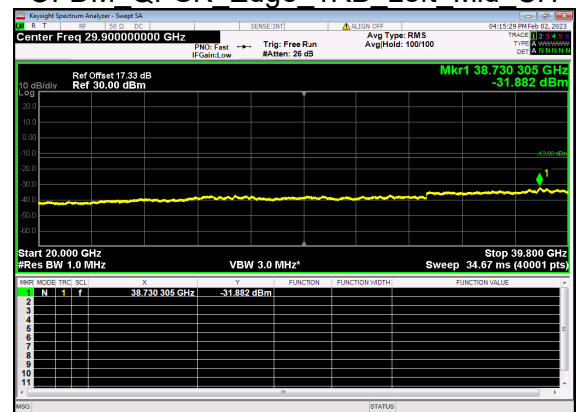
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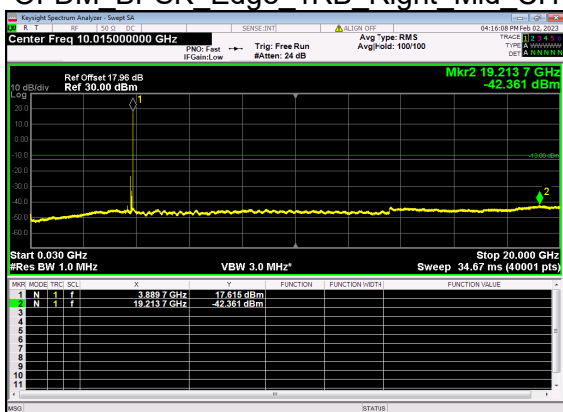
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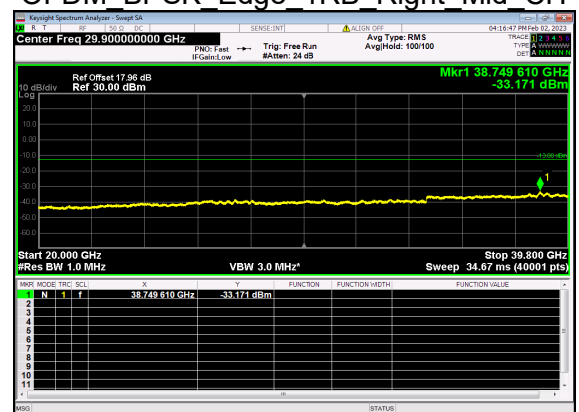
N77(100M)_DFT-s-OFDM QPSK Edge 1RB Left Mid CH



N77(100M)_DFT-s-OFDM BPSK Edge 1RB Right Mid CH

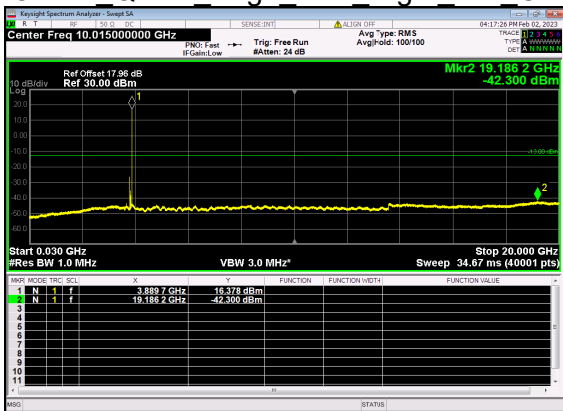


N77(100M)_DFT-s-OFDM BPSK Edge 1RB Right Mid CH

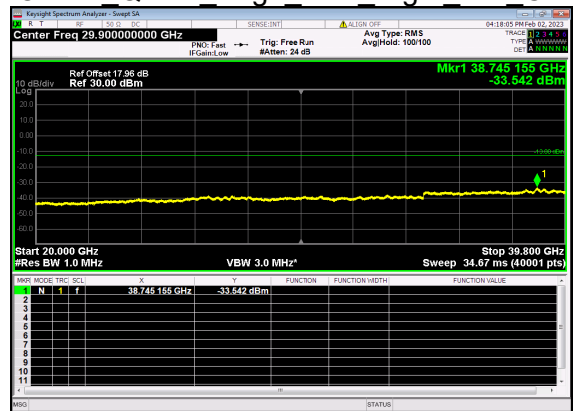




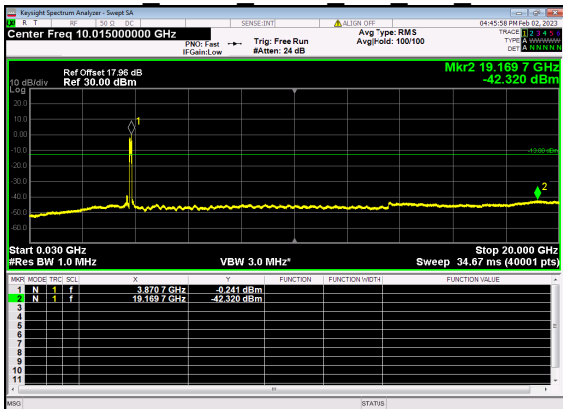
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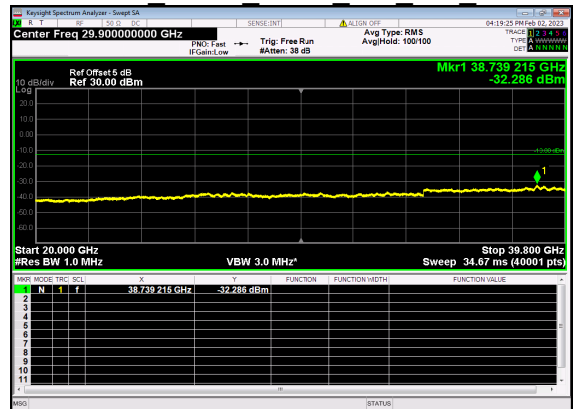
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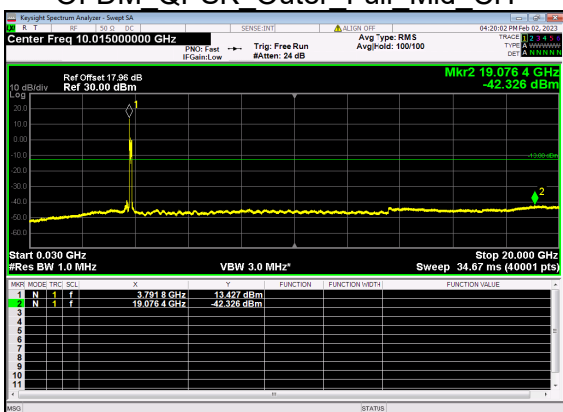
N77(100M)_DFT-s-OFDM BPSK Outer Full Mid CH



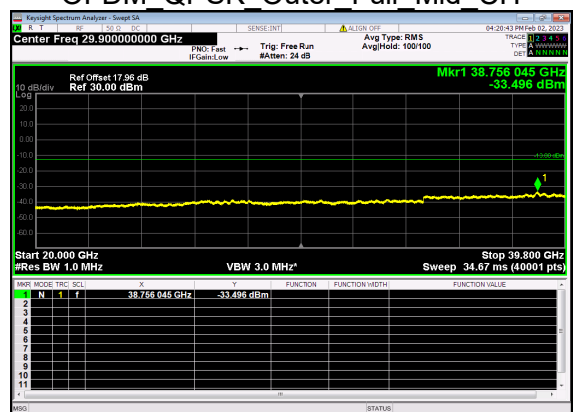
N77(100M)_DFT-s-OFDM BPSK Outer Full Mid CH



N77(100M)_DFT-s-OFDM QPSK Outer Full Mid CH

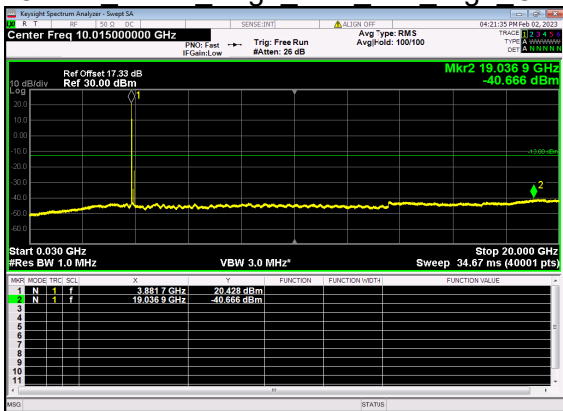


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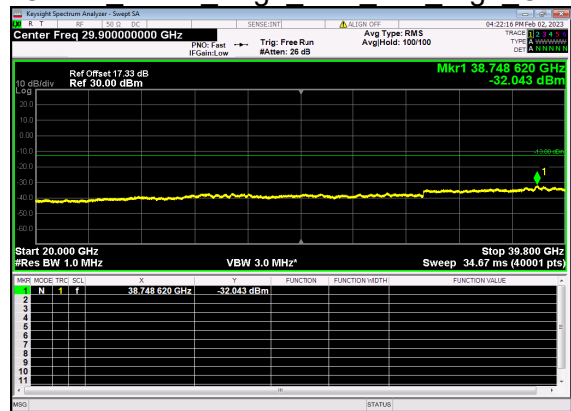




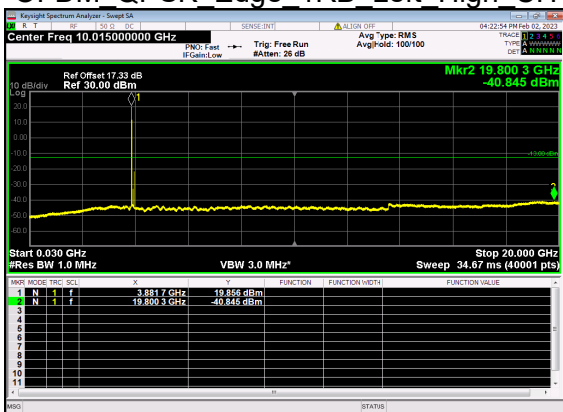
N77(100M)_DFT-s-OFDM BPSK Edge 1RB Left High CH



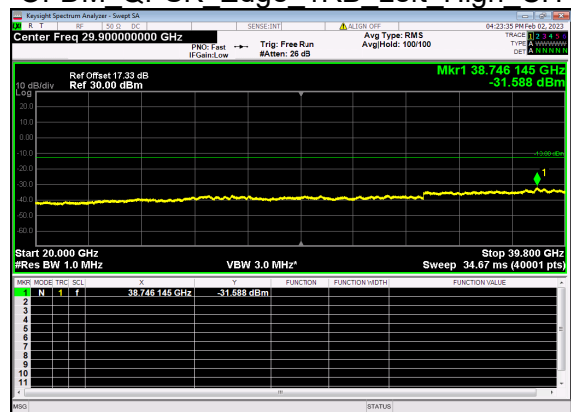
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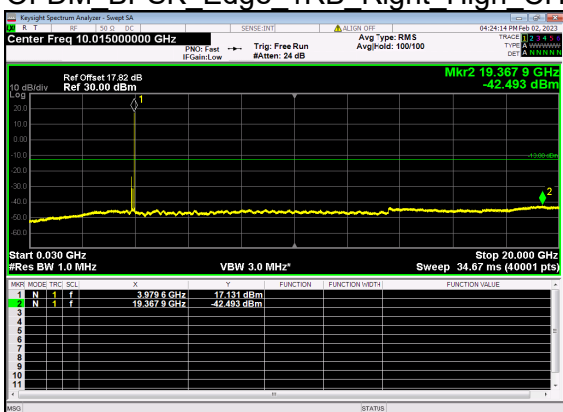
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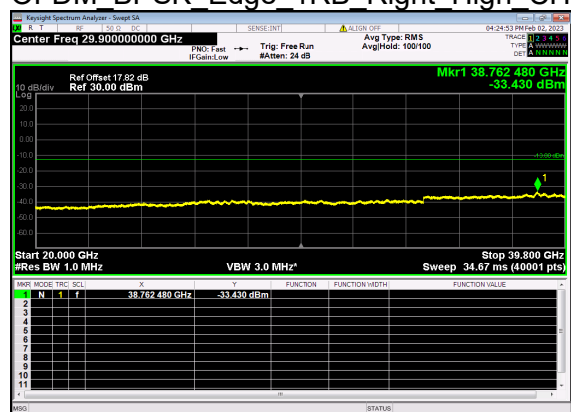
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N77(100M)_DFT-s-OFDM BPSK Edge 1RB Right High CH

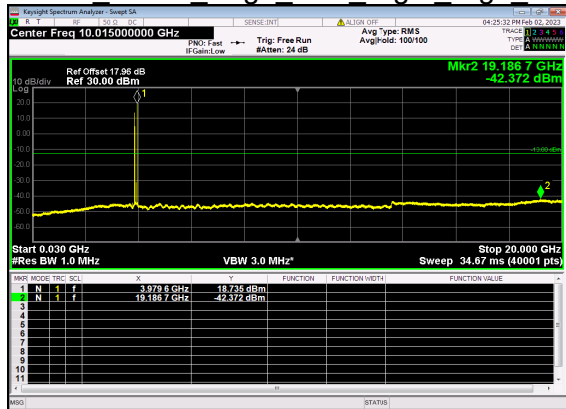


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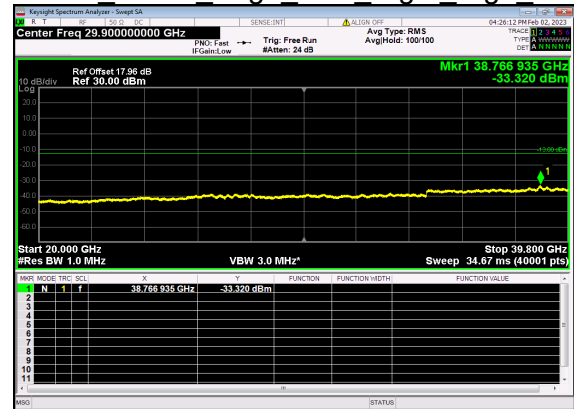




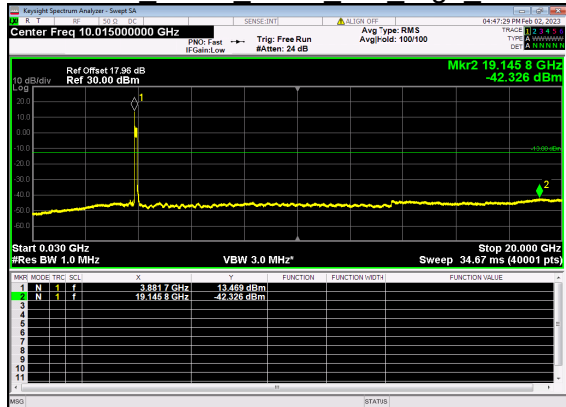
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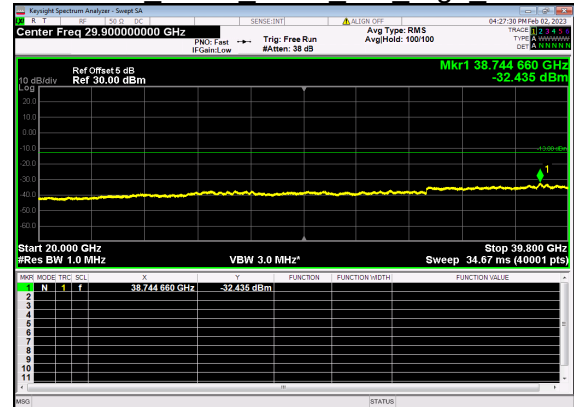
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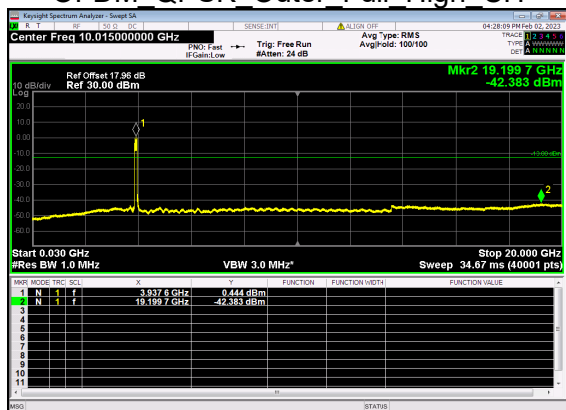
N77(100M)_DFT-s-OFDM BPSK Outer Full High CH



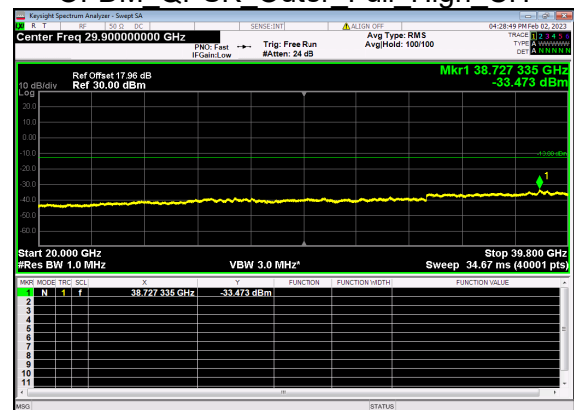
N77(100M)_DFT-s-OFDM BPSK Outer Full High CH



N77(100M)_DFT-s-OFDM QPSK Outer Full High CH



N77(100M)_DFT-s-OFDM QPSK Outer Full High CH





2.6. Band Edge

2.6.1. Requirement

According to FCC section 22.917(a), 24.238(a)(b), 27.53(h)(1)(3)(i) for n2, n25, n5, n66, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB.

According to FCC section 27.53(g) for n12, For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43+10\log(P)$ dB.

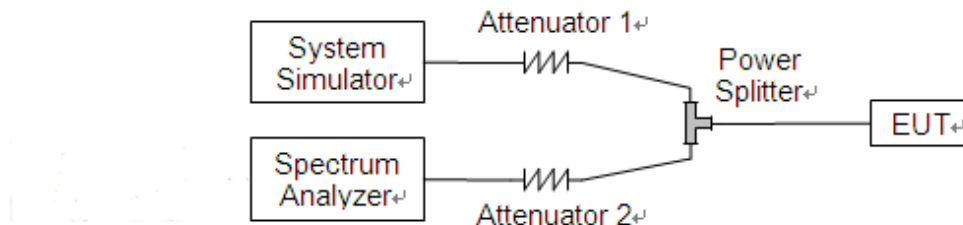
According to FCC section 27.53(m) (4) for n41, for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

According to FCC section 27.53(l) (2) for n77, for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

According to FCC section 27.53(n) (2) for n77, for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of

measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

2.6.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.6.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

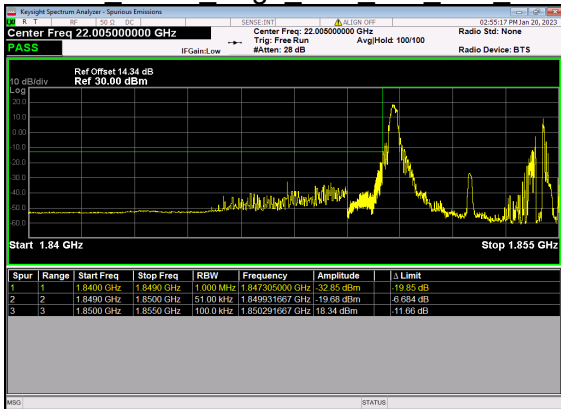
2.6.4. Test Result

The center frequency of spectrum is the band edge frequency and span is 2 MHz, Record the max trace into the test report.

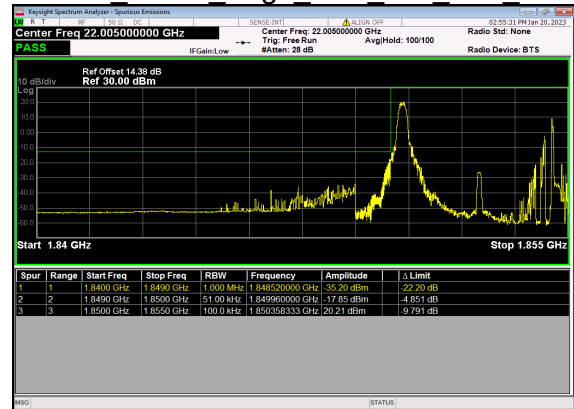
Note: In the same NR frequency band, The measured power in SA mode is higher than that in NSA mode, SA mode is selected to test all test cases.



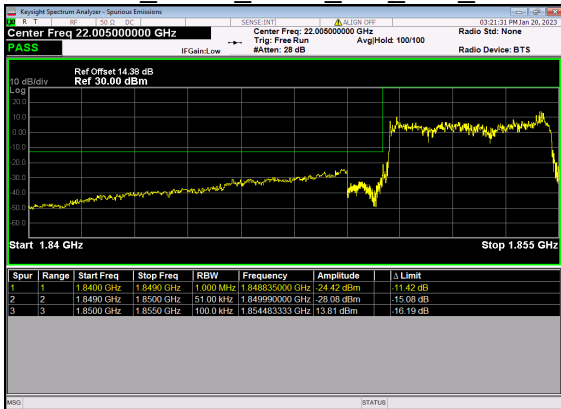
N2(5M)_DFT-s-OFDM BPSK Edge 1RB Left Low CH



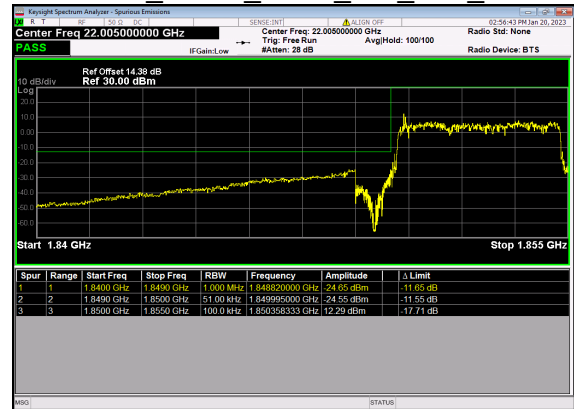
N2(5M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH



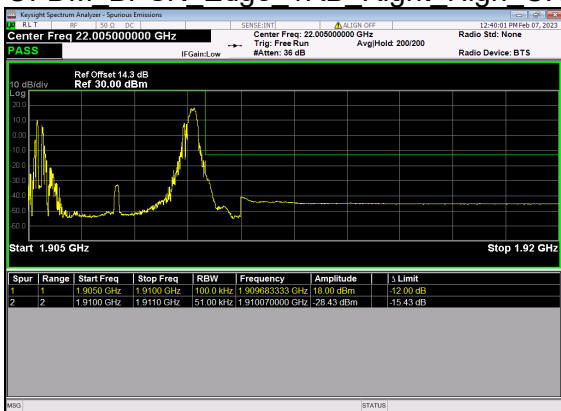
N2(5M)_DFT-s-OFDM BPSK Outer Full Low CH



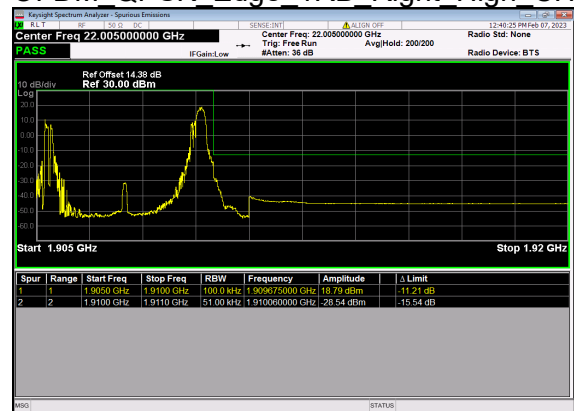
N2(5M)_DFT-s-OFDM QPSK Outer Full Low CH



N2(5M)_DFT-s-OFDM BPSK Edge 1RB Right High CH



N2(5M)_DFT-s-OFDM QPSK Edge 1RB Right High CH





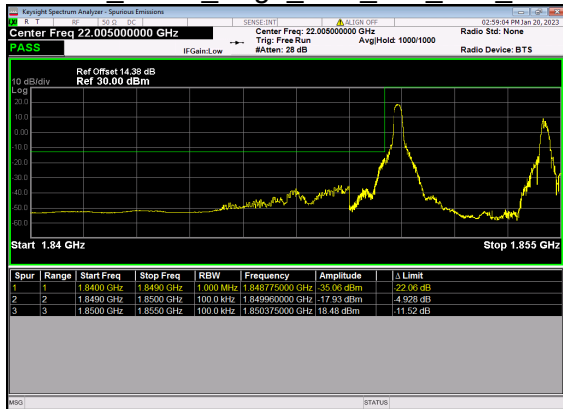
N2(5M)_DFT-s-OFDM BPSK Outer Full High CH



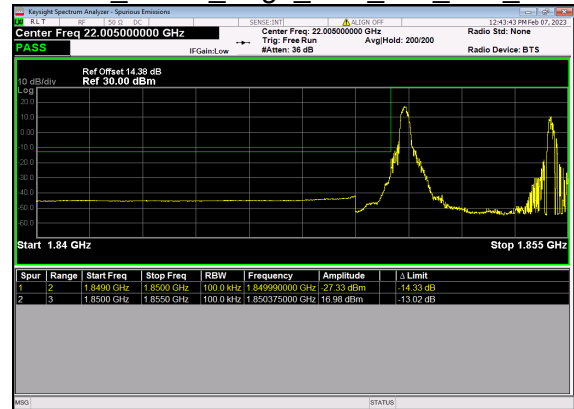
N2(5M)_DFT-s-OFDM QPSK Outer Full High CH



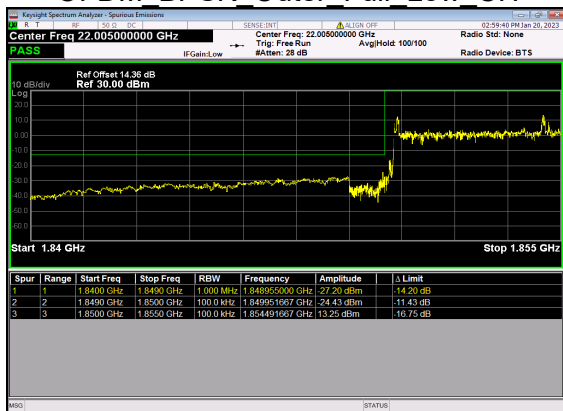
N2(10M)_DFT-s-OFDM BPSK Edge 1RB Left Low CH



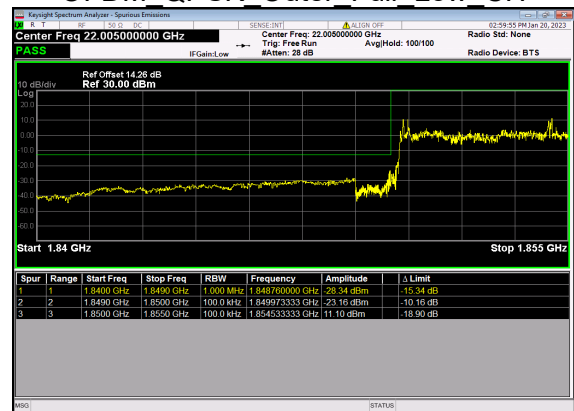
N2(10M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH



N2(10M)_DFT-s-OFDM BPSK Outer Full Low CH

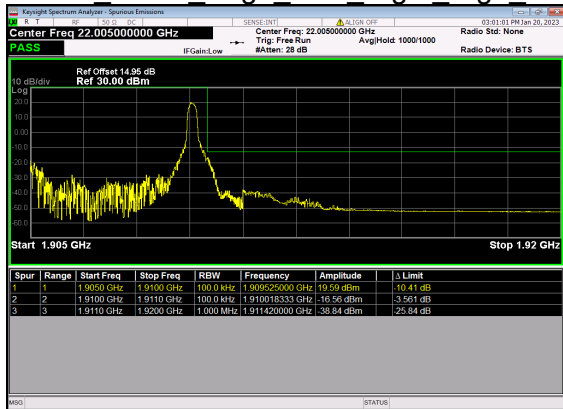


N2(10M)_DFT-s-OFDM QPSK Outer Full Low CH

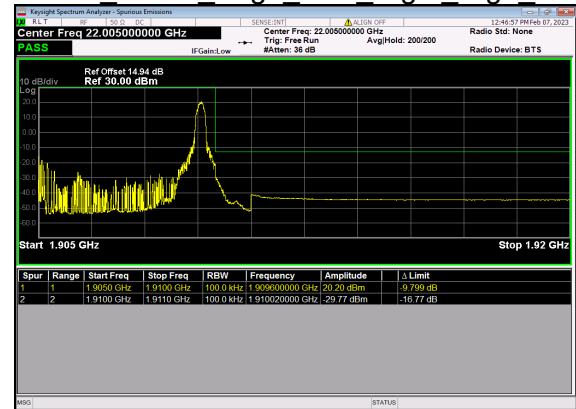




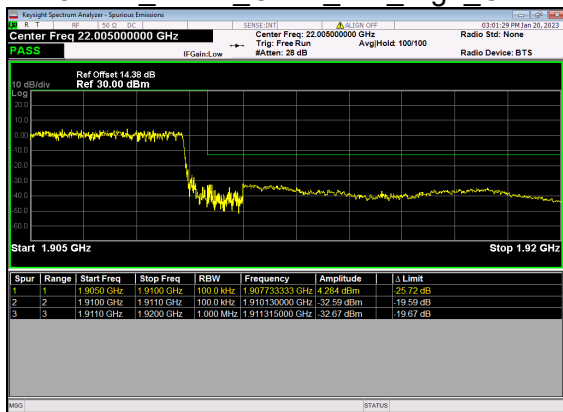
N2(10M)_DFT-s-OFDM BPSK Edge 1RB Right High CH



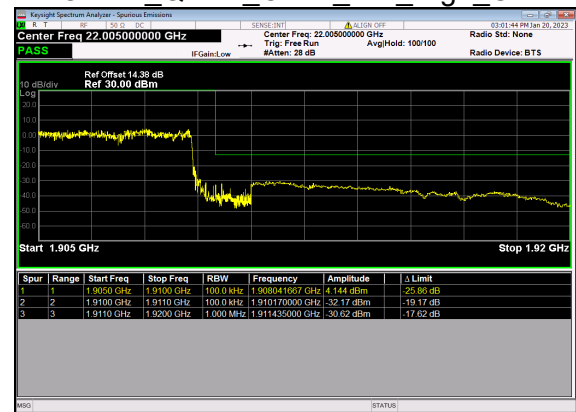
N2(10M)_DFT-s-OFDM QPSK Edge 1RB Right High CH



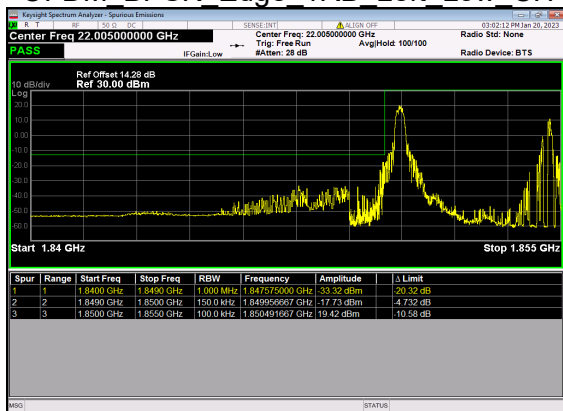
N2(10M)_DFT-s-OFDM BPSK Outer Full High CH



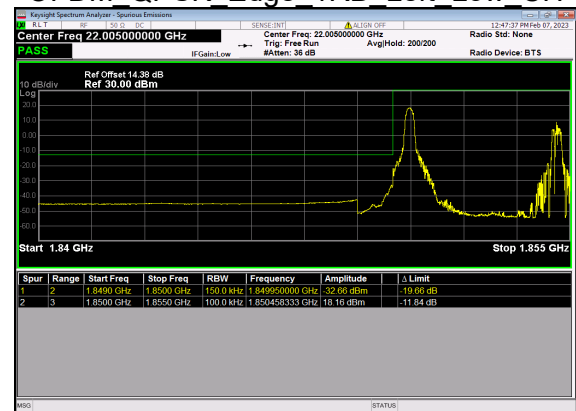
N2(10M)_DFT-s-OFDM QPSK Outer Full High CH



N2(15M)_DFT-s-OFDM BPSK Edge 1RB Left Low CH

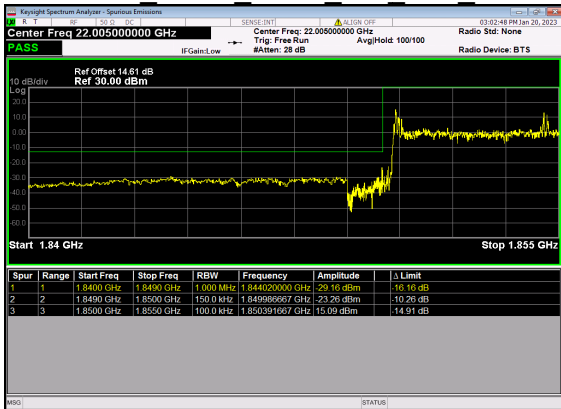


N2(15M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH

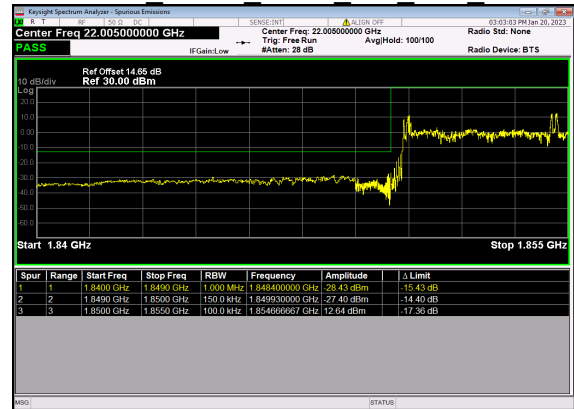




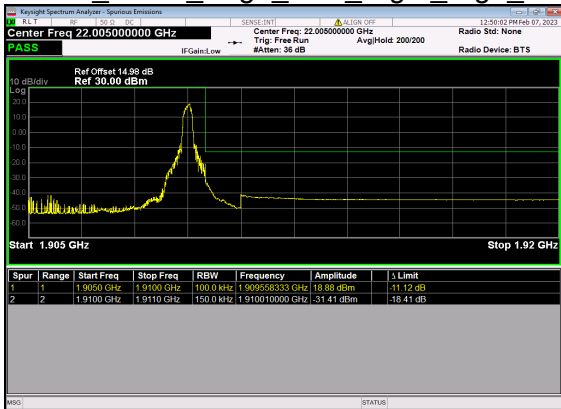
N2(15M)_DFT-s-OFDM BPSK Outer Full Low CH



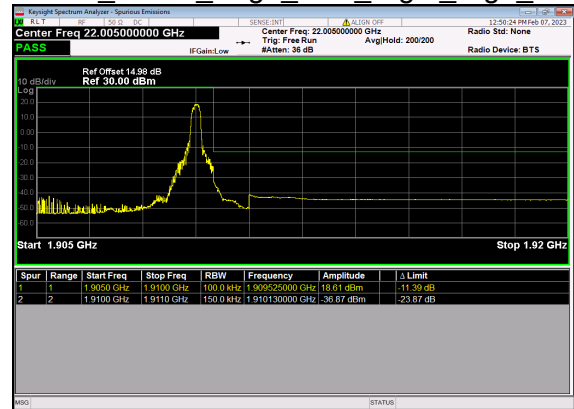
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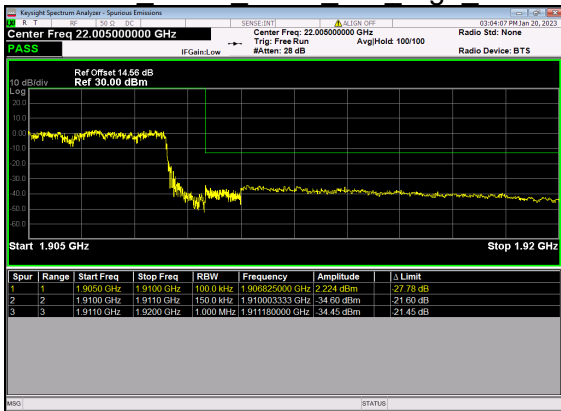
N2(15M)_DFT-s-OFDM BPSK Edge 1RB Right High CH



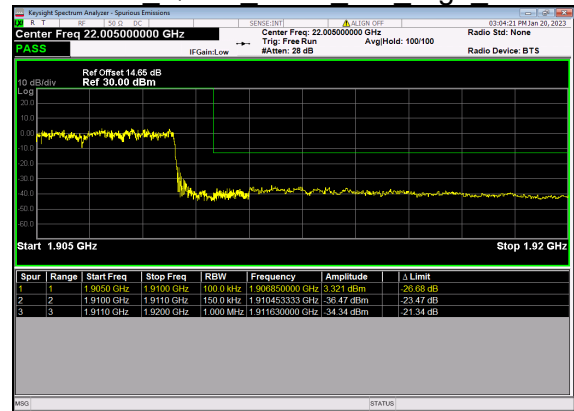
N2(15M)_DFT-s-OFDM QPSK Edge 1RB Right High CH



N2(15M)_DFT-s-OFDM BPSK Outer Full High CH

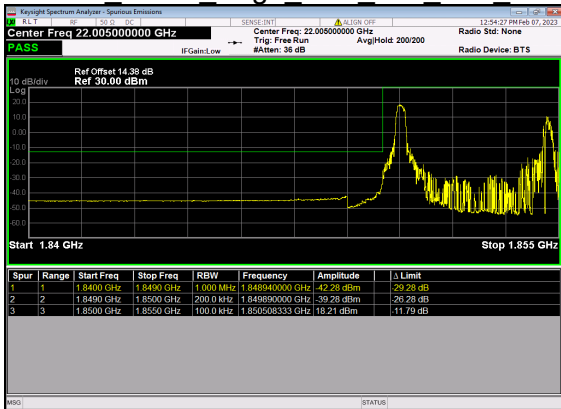


N2(15M)_DFT-s-OFDM QPSK Outer Full High CH

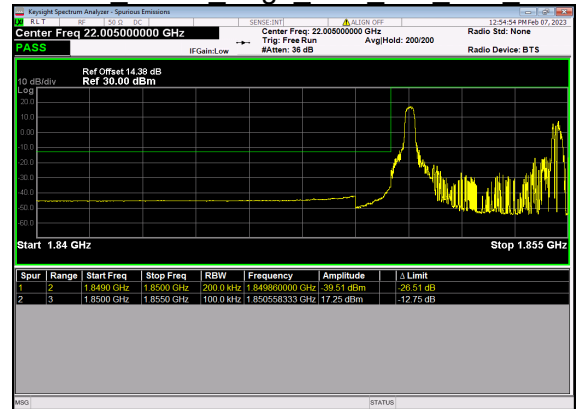




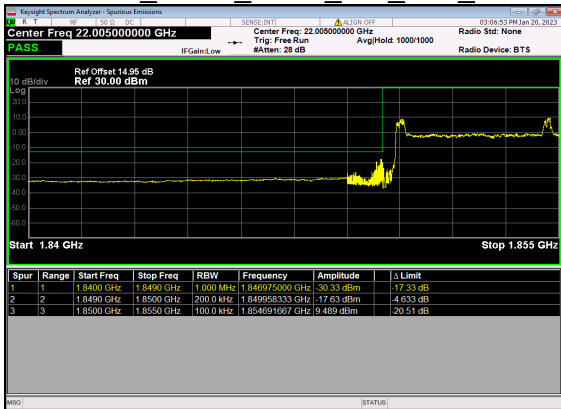
N2(20M)_DFT-s-OFDM BPSK Edge 1RB Left Low CH



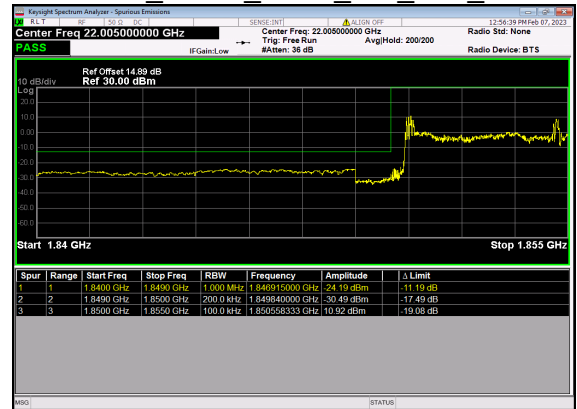
N2(20M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH



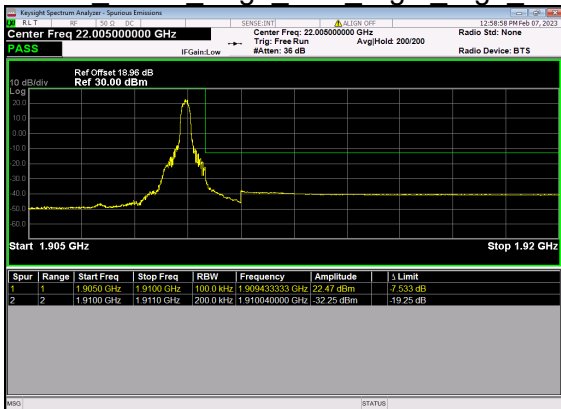
N2(20M)_DFT-s-OFDM BPSK Outer Full Low CH



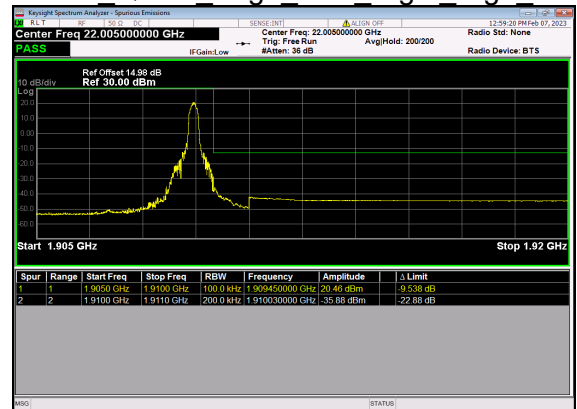
N2(20M)_DFT-s-OFDM QPSK Outer Full Low CH



N2(20M)_DFT-s-OFDM BPSK Edge 1RB Right High CH

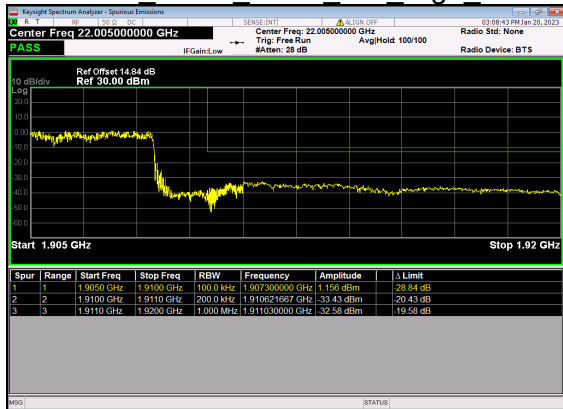


N2(20M)_DFT-s-OFDM QPSK Edge 1RB Right High CH

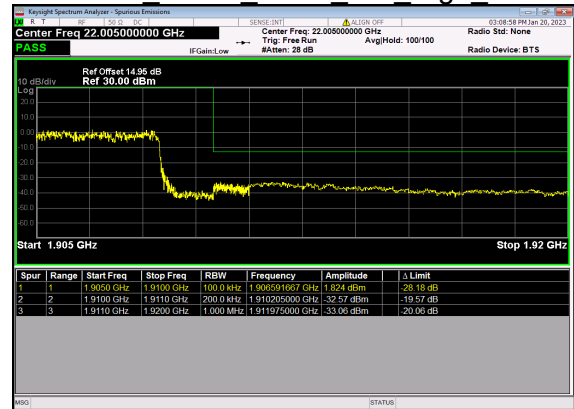




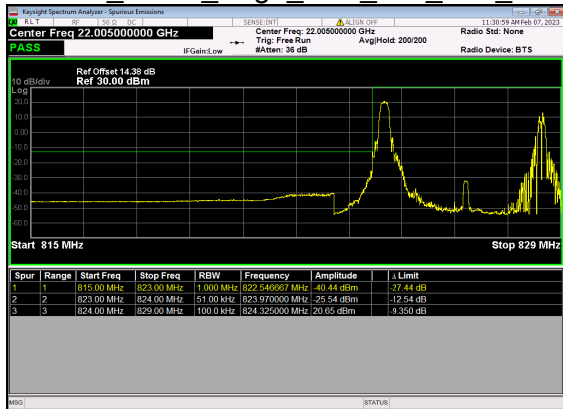
N2(20M)_DFT-s-OFDM BPSK Outer Full High CH



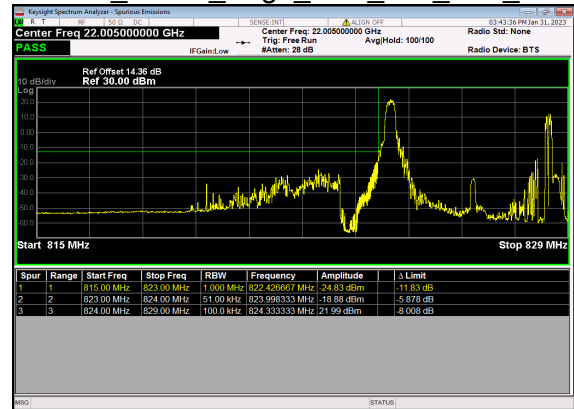
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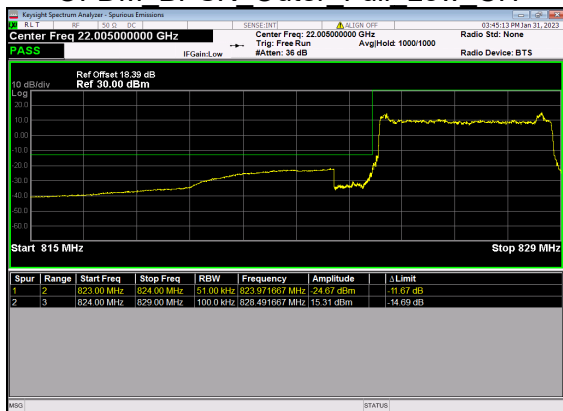
N5(5M)_DFT-s-OFDM BPSK Edge 1RB Left Low CH



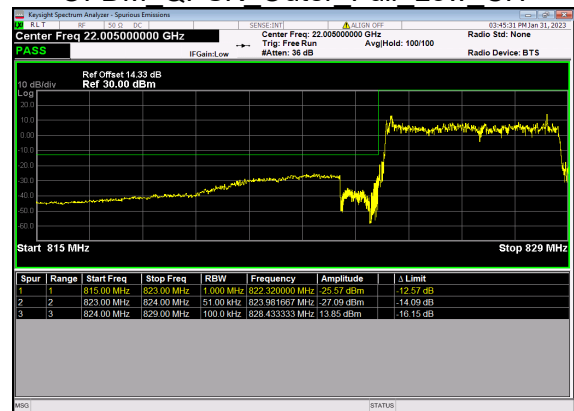
N5(5M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH



N5(5M)_DFT-s-OFDM BPSK Outer Full Low CH

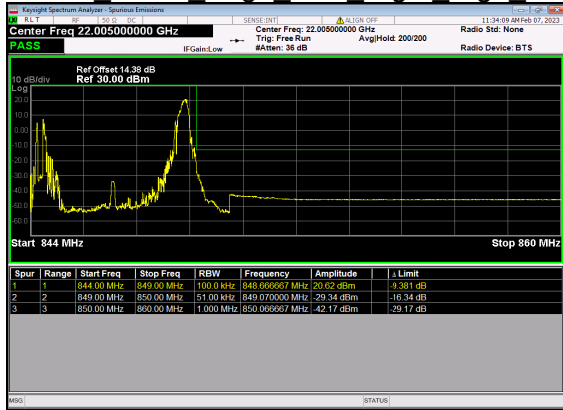


N5(5M)_DFT-s-OFDM QPSK Outer Full Low CH

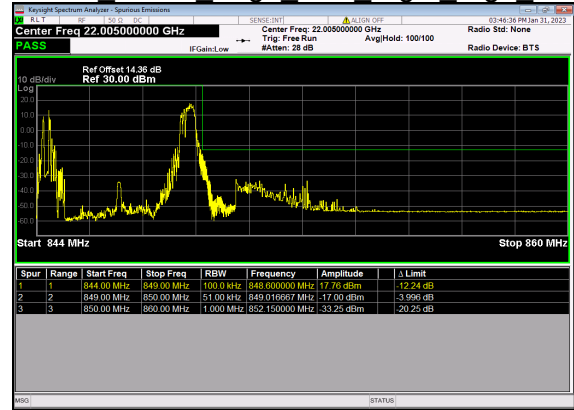




N5(5M)_DFT-s-OFDM BPSK Edge 1RB Right High CH



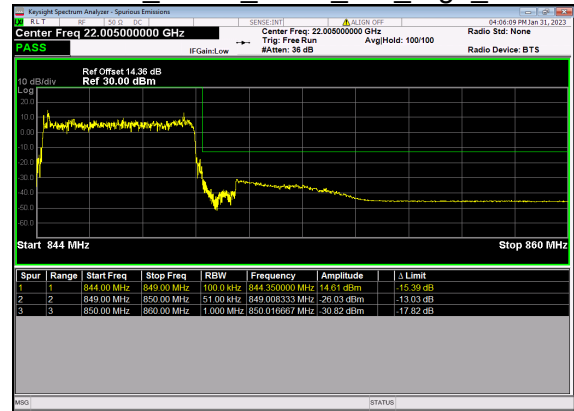
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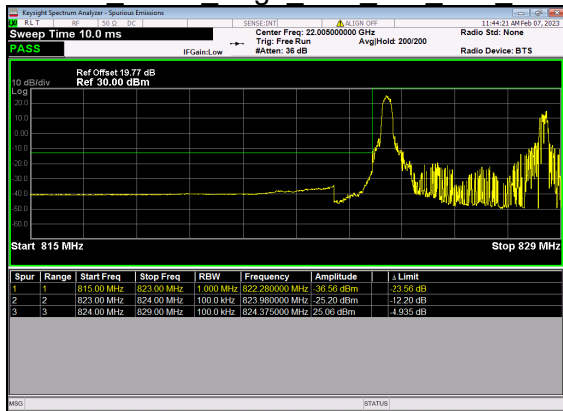
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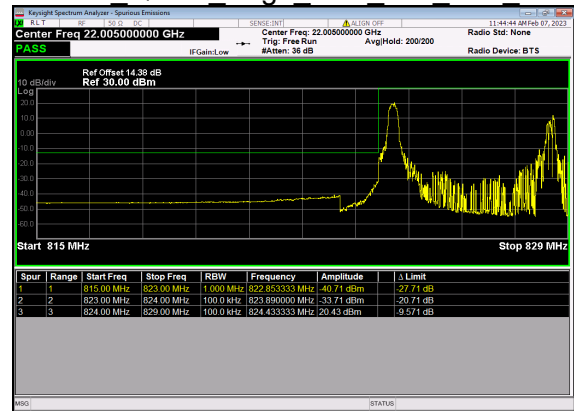
N5(5M)_DFT-s-OFDM QPSK Outer Full High CH



N5(10M)_DFT-s-OFDM BPSK Edge 1RB Left Low CH

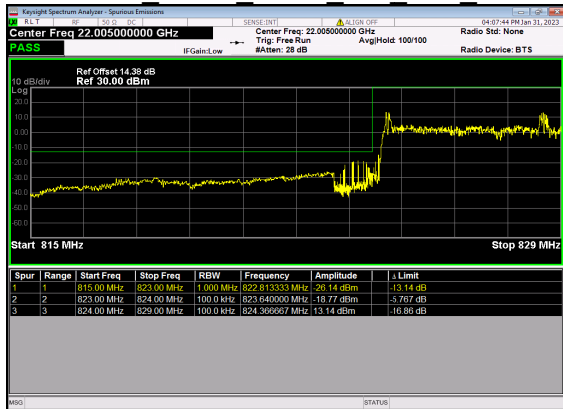


N5(10M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH

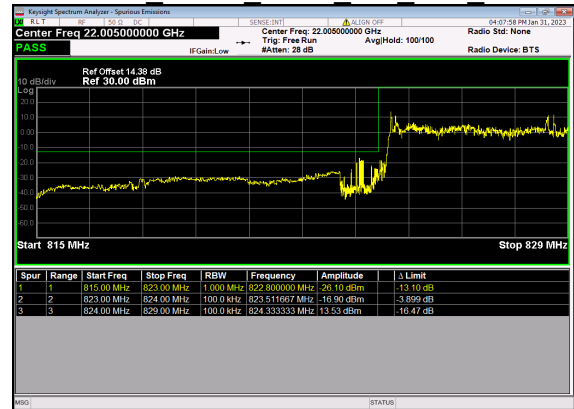




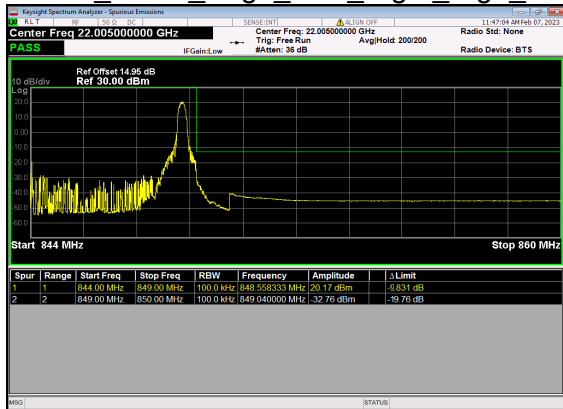
N5(10M)_DFT-s-OFDM BPSK Outer Full Low CH



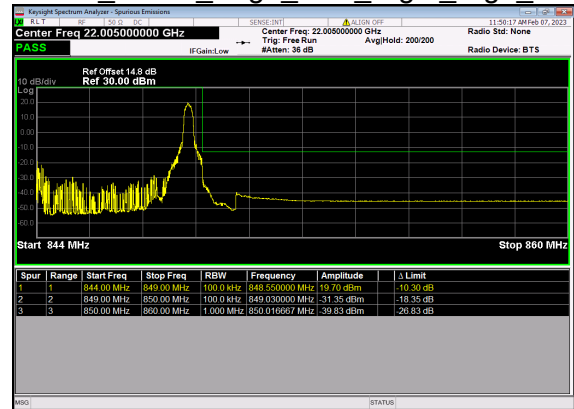
N5(10M)_DFT-s-OFDM QPSK Outer Full Low CH



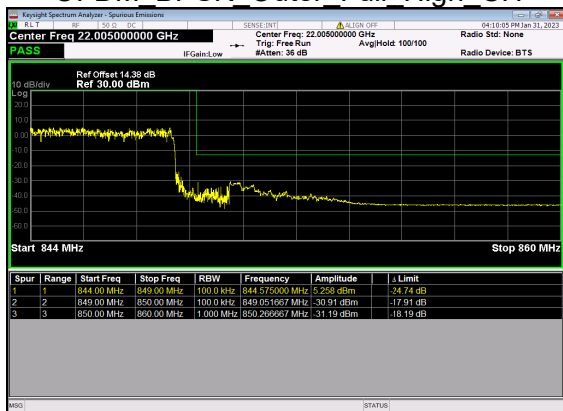
N5(10M)_DFT-s-OFDM BPSK Edge 1RB Right High CH



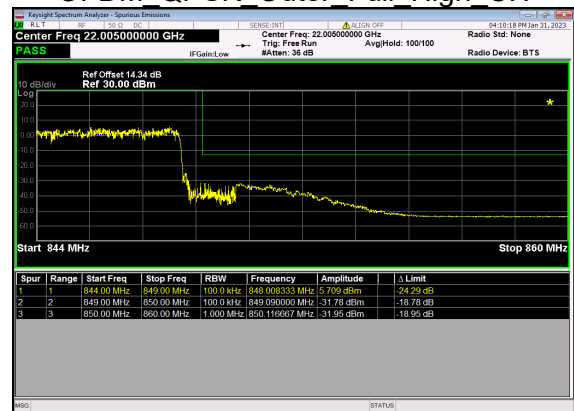
N5(10M)_DFT-s-OFDM QPSK Edge 1RB Right High CH



N5(10M)_DFT-s-OFDM BPSK Outer Full High CH

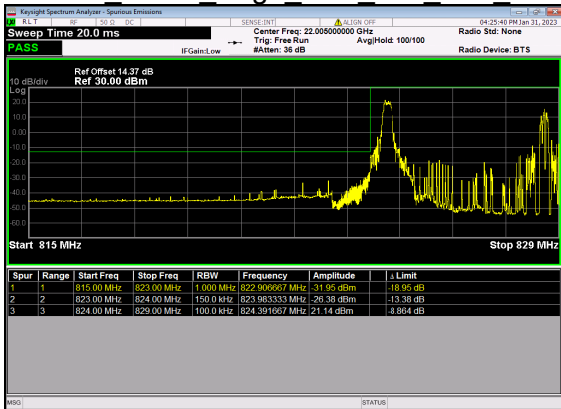


N5(10M)_DFT-s-OFDM QPSK Outer Full High CH

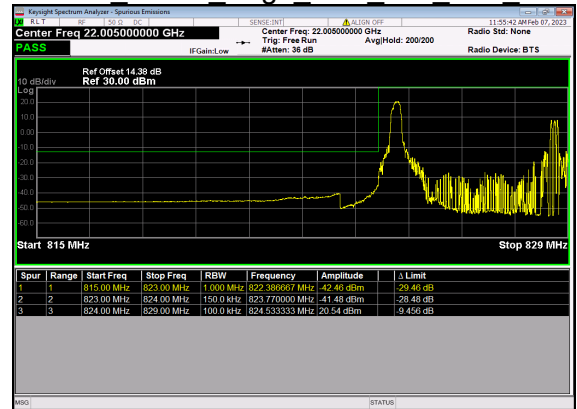




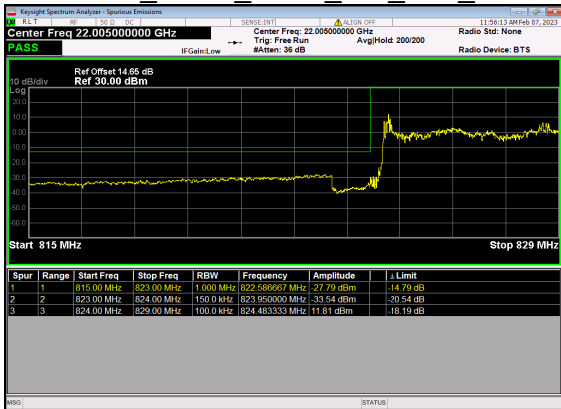
N5(15M)_DFT-s-OFDM BPSK Edge 1RB Left Low CH



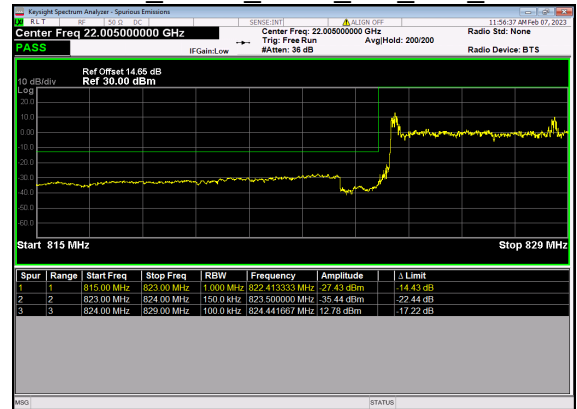
N5(15M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH



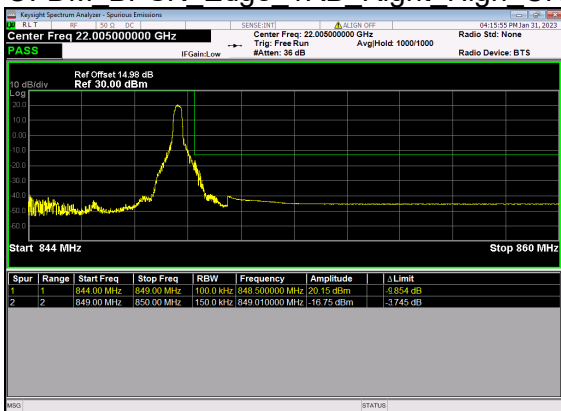
N5(15M)_DFT-s-OFDM BPSK Outer Full Low CH



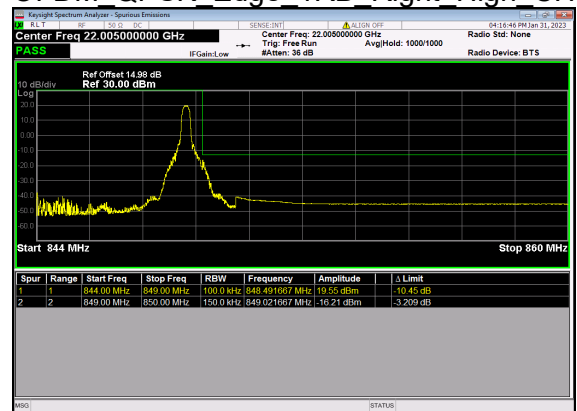
N5(15M)_DFT-s-OFDM QPSK Outer Full Low CH



N5(15M)_DFT-s-OFDM BPSK Edge 1RB Right High CH

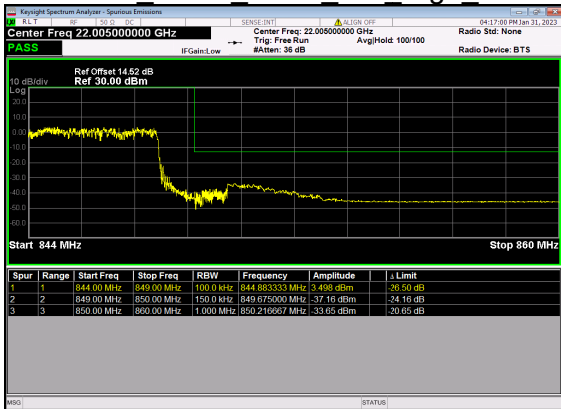


N5(15M)_DFT-s-OFDM QPSK Edge 1RB Right High CH

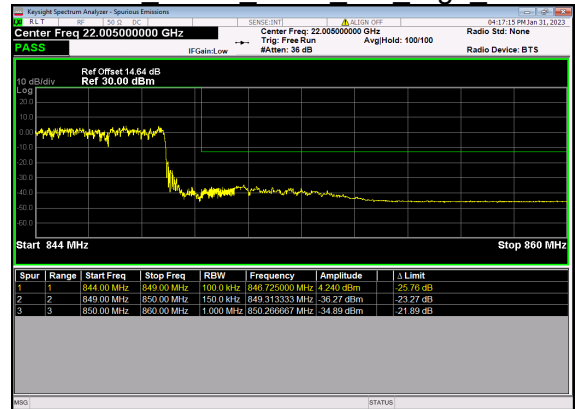




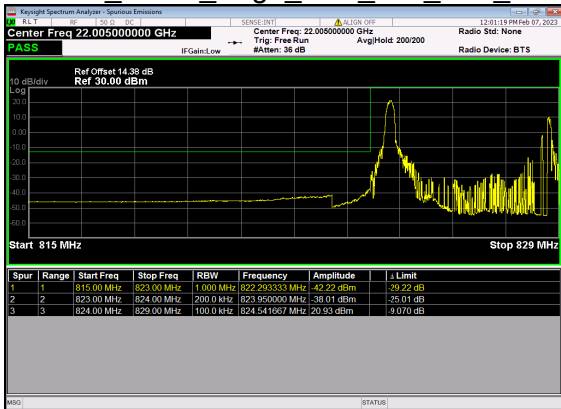
N5(15M)_DFT-s-OFDM BPSK Outer Full High CH



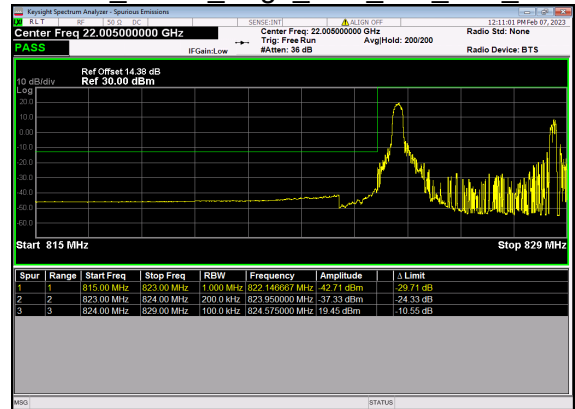
N5(15M)_DFT-s-OFDM QPSK Outer Full High CH



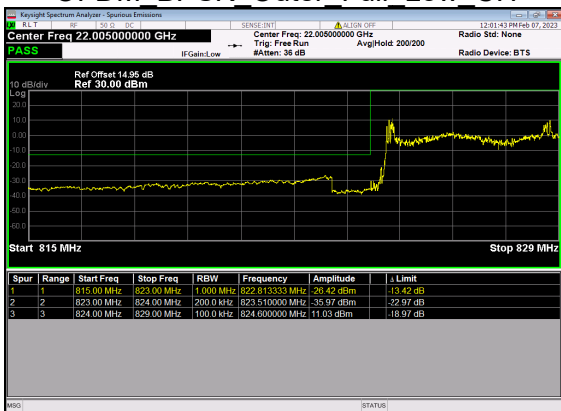
N5(20M)_DFT-s-OFDM BPSK Edge 1RB Left Low CH



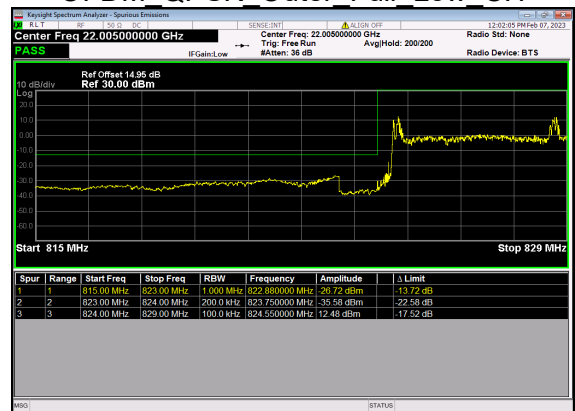
N5(20M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH



N5(20M)_DFT-s-OFDM BPSK Outer Full Low CH

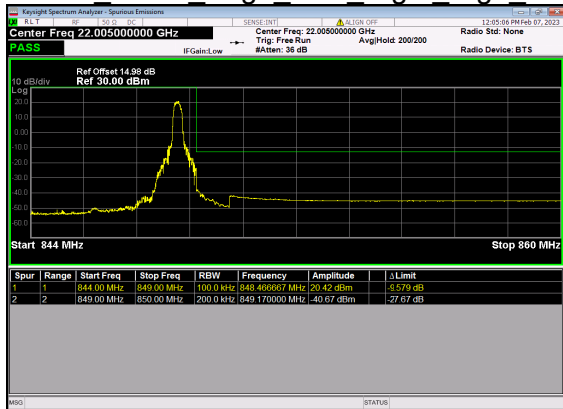


N5(20M)_DFT-s-OFDM QPSK Outer Full Low CH

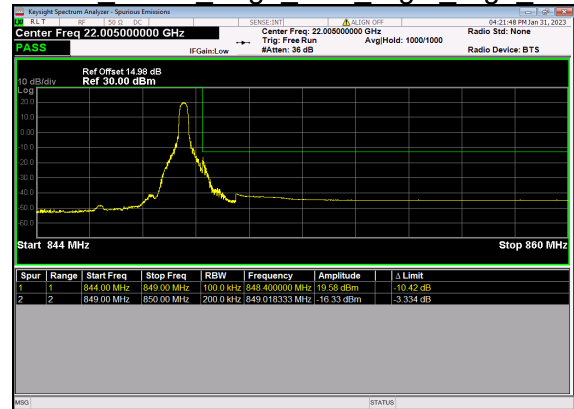




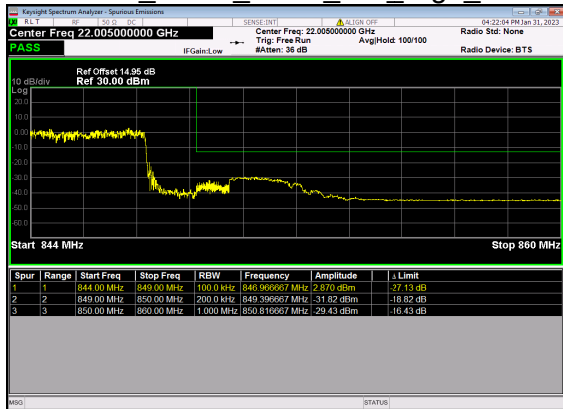
N5(20M)_DFT-s-OFDM BPSK Edge 1RB Right High CH



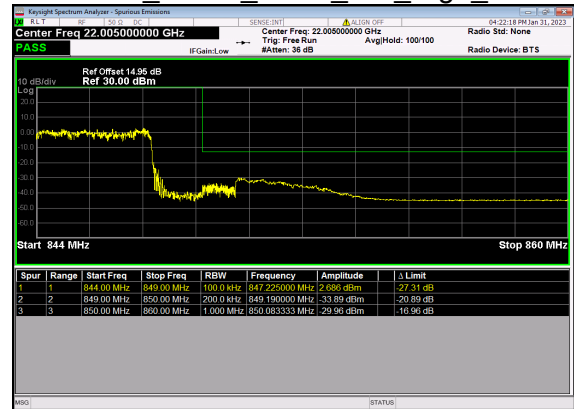
N5(20M)_DFT-s-OFDM QPSK Edge 1RB Right High CH



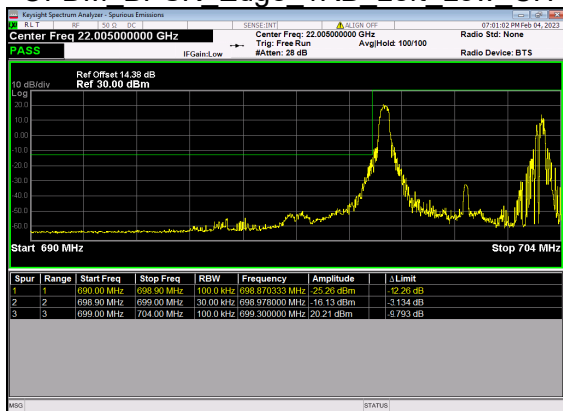
N5(20M)_DFT-s-OFDM BPSK Outer Full High CH



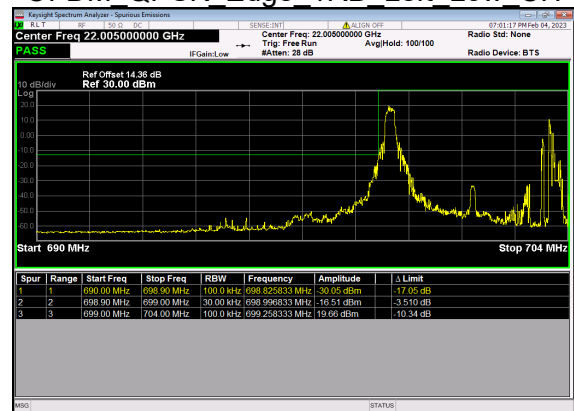
N5(20M)_DFT-s-OFDM QPSK Outer Full High CH



N12(5M)_DFT-s-OFDM BPSK Edge 1RB Left Low CH



N12(5M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH

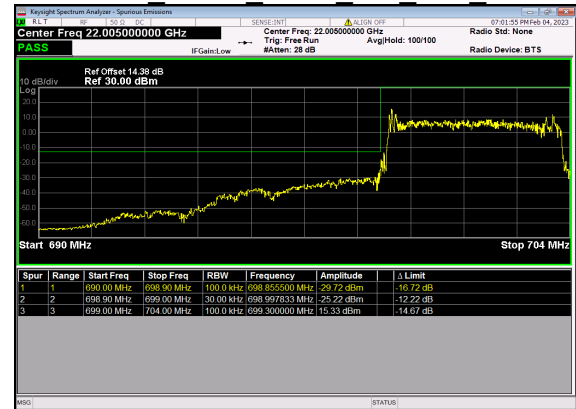




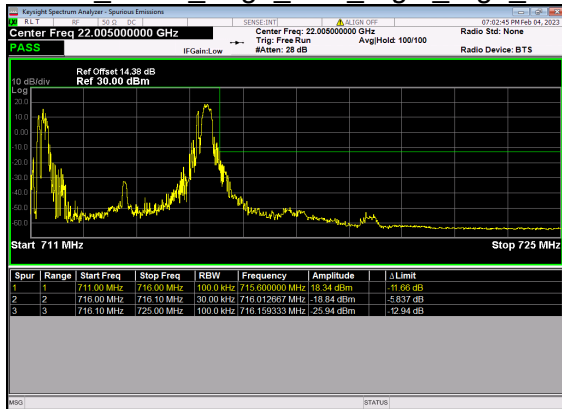
N12(5M)_DFT-s-OFDM BPSK Outer Full Low CH



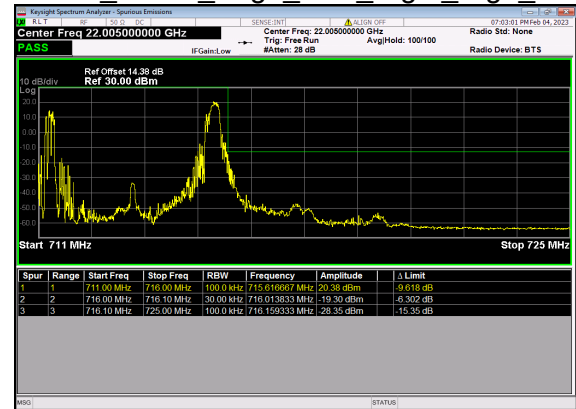
N12(5M)_DFT-s-OFDM QPSK Outer Full Low CH



N12(5M)_DFT-s-OFDM BPSK Edge 1RB Right High CH



N12(5M)_DFT-s-OFDM QPSK Edge 1RB Right High CH



N12(5M)_DFT-s-OFDM BPSK Outer Full High CH



N12(5M)_DFT-s-OFDM QPSK Outer Full High CH

